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E2 14 63. (Thrice Amended) The method of claim 61¹², wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.

E3 20 69. (Twice Amended) The cell of claim 67¹⁸, wherein said β -secretase-cleavable fragment is selected from the group consisting of SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 94, SEQ ID NO: 95 and SEQ ID NO: 96.

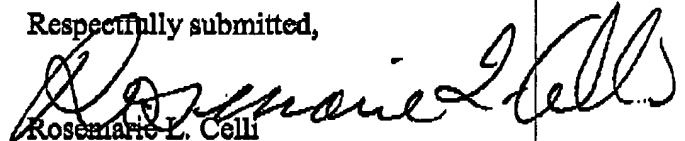
REMARKS

Claims 58, 63, and 69 have been amended as Examiner Walicka suggested during a December 27, 2002 telephone conference with the undersigned attorney. Claim 58 has been amended to delete "SEQ ID NO.: 56" and ", a β -secretase protein,". Claim 63 has been amended to depend from claim 61. Claim 69 has been amended to recite SEQ ID NOS.

Applicants submit herewith two Powers of Attorney (PTO/SB/81), a Statement Under 37 CFR 3.73(b) (PTO/SB/9), and a Change of Correspondence (PTO/SB/122). Applicants respectfully request all future papers mailed for the instant application go to the address indicated on the Change of Correspondence form.

Applicants believe all claims now under consideration in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested. If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,


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VERSION WITH MARKINGS TO SHOW CHANGES MADE

58. (Twice Amended) A method of producing a recombinant β -secretase enzyme, comprising culturing a cell transfected with a vector comprising a sequence of nucleotides that encodes SEQ ID NO: 2, SEQ ID NO: 43, [SEQ ID NO: 56,]SEQ ID NO: 57, SEQ ID NO: 58, SEQ ID NO: 59, SEQ ID NO: 60, SEQ ID NO: 66, SEQ ID NO: 67, SEQ ID NO: 68, SEQ ID NO: 69, SEQ ID NO: 70, SEQ ID NO: 74, SEQ ID NO: 75[, a β -secretase protein,] or a complementary sequence of such nucleotides under conditions to promote growth of said cell, and subjecting an extract or cultured medium from said cell to an affinity matrix.

63. (Thrice Amended) The method of claim 61[58], wherein said antibody further lacks significant immunoreactivity with a protein having the sequence of SEQ ID NO: 2.

69. (Twice Amended) The cell of claim 67, wherein said β -secretase-cleavable fragment is selected from the group consisting of [SEVKMDAEF (P5-P4'wt), SEVNLDAEF (sw), SEVKLDAEF, SEVKFDAEF, SEVNFDAEF, SEVKMAAEF, SEVNLAEEF, SEVKLAAEF, SEVKMLAEF, SEVNLLAEF, SEVKLLAEF, SEVKFAAEF, SEVNFAAEF, SEVKFLAEF, and SEVNFLAEF]SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 94, SEQ ID NO: 95 and SEQ ID NO: 96.

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